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**(54) PIPE CABLE JUNCTURE FOR DIRECT EMBEDMENT-TYPE AND PNEUMATIC FEED-SYSTEM OPTICAL FIBER**

connection of the corrugated steel pipe armors to each other and water shielding.

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(57) Abstract:

**PURPOSE:** To provide a pipe cable juncture for a direct embedment-type and pneumatic feed-system optical fibers which is compact, has a mechanical strength, waterproofness and other reliability adequate for direct laying at river embankments, road, along railway lines, etc., and is easy to be assembled on outdoor laying site as well.

**CONSTITUTION:** This pipe cable juncture for the direct embedment-type and pneumatic feed-system optical fibers is formed by applying waterproof sheaths 14 on the outer side arranged with pipes 12 for pneumatic feeding of optical fiber units and other members and applying corrugated steel pipe armors 15 thereon. The pipe cable juncture has a three-layered cylindrical structure composed of (a) a pipe connector 21 for airtightly connecting the pipes to each other, (b) a sheath connector 30 for enveloping the juncture of the pipe connectors 21 and other arranged members and executing waterproof connection of waterproof sheaths to each other and (c) an armor connector 40 for enveloping this sheath connector 30 and executing the mechanical

